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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,642	12/14/20	00	Daniel C. Wang	ACT-311	2280
75	590 09	9/11/2002			
Kenneth D'Alessandro				EXAMINER	
Sierra Patent G		•	DIAZ, JOSE R		
P.O. Box 6149				<i>BIND</i> , 300 <i>D</i> R	
Stateline, NV	89449			ART UNIT	PAPER NUMBER
				2815	
		DATE MAILED: 09/11/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Offic Action Summary	09/737,642	WANG, DANIEL C.				
	One Action Summary	Examiner	Art Unit				
	The MAN INCORATE AND	José R Díaz	2815				
The MAILING DATE of this communication appears on the cover sheet with the c rrespondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Posponojivo to communication/s) filed on 44 /	2000					
1)⊠ 2a)⊠	Responsive to communication(s) filed on <u>11 July</u>						
	,	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) stent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

➤ Claims 1, 3-5 and 10 are still rejected under 35 U.S.C. 102(e) by Shao et al. (US Pat. No. 6,124,194). See last Office action, mailed on January 31, 2002.

Claim Rejections - 35 USC § 103

➤ Claims 2 and 6-9 are still rejected under 35 U.S.C. 103(a) by Shao et al. (US Pat. No. 6,124,194) in view of Yeouchung et al. (US Pat. No. 6,001,693. See last Office action, mailed on January 31, 2002.

Response to Arguments

- Applicant's arguments filed June 11, 2002 have been fully considered but they are not persuasive. Applicant argues that the invention of Shao et al is made by a different process, which results in a "large" structure. However, the Examiner disagrees. First, the method uses by Shao et al. is of no concern when the claimed structure is taught by Shao. Second, the claimed structure does not include limitations as to size. Thus, Applicant's arguments are not persuasive since Shao teaches the claimed structure.
- With regard to the arguments about the first cap layer, Applicant should note that Shao et al anticipate such a limitation. For example, Figure 4 shows a first cap layer (28) having a via formed therethrough (e.g. consider the opening formed between left and right portions of the first cap layer (28)), such that the lower Cu metal layer (26) is exposed and electrically connected to a lower barrier layer (36). Further, the second cap layer (40, 42) can be found in Fig. 10 of Yeouchung et al. Therefore, Applicant's

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argument are not persuasive since the combination of references teach "all the claim limitations."

Conclusion

> THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R Díaz whose telephone number is (703) 308-6078. The examiner can normally be reached on 9:00-5:00 Monday, Tuesday, Thursday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 746-3891 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JRD September 7, 2002

FODIE LEE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 200